



Information Management

Data Validation & Verification

IMSMA Summer workshop
Murten
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Introduction

Data Quality Control vs. Quality Assurance

Data Quality Control:

- **Verify data against concept and errors**
- **Referring to errors in collected information**

Quality Assurance:

- **Assuring quality of actions performed**
- **Referring to task performed in the field**

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Why information must be validated and verified (I)

Responsibility

- Ottawa Convention (Art.7) requires all State parties to inform about their HMA – program processes (including stockpile destruction)
- Information communicated by the State (Nation) has to be transparent and correct.
- HMA-Agency in charge of information management is responsible for the integrity of data managed (indirect or direct responsibility through national information management policy, referring to IMAS)

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Why information must be validated and verified (II)

Strategic and Long term planning

- HMA – programs tend to be of large duration, heavily supported by the international community
 - Bi-lateral agreements for financial support require transparent and precise information
 - International donors may accept reduced output due to climate, conflict situation, as long as the information communicated is correct and transparent.
- Building castle on stone
 - Information collected during HMA-tasks build the basis for all future communications
 - Errors once entered into a database are – due to formatting – hard to detect.

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Establishing Data Quality Control procedures

All information collected should be verified several times:

INPUT

- Collection
- Regional / National Office
- During Data Processing
- Periodical reviews

OUTPUT

- Internal document review
- Publication review (national policy)

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Maintaining Data Quality

Whatever kind of information, no matter who sent it, has to be checked upon the following points:

- • Integrity
- • Completeness
- • correctness

- What to review:
- • Norm values (difference to expected values)
- • Reality - plausibility
- • Localization (geographic position, Gazetteer)
- • Format
- • Accordance (on-time, content)

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Maintaining Data Quality (II)



- Tools:

- o Forms (you create your own forms)
- o GIS
- o Statistics
- o **Common sense**

- How to act when error got detected:

- o File-document
- o Reject source with error description (where possible)
- o Correct and store corrected data

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Tools & Proceedings assisting the validation and verification



Even though there exist certain tools for validation and verification of information, maintaining the integrity of a database is a **Management issue**.

And

Staff training issue

Standard procedures help in data collection and processing;

if no standard exists, nothing to compare with is available.

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Q C - The basics

-) **Monitoring data collection**
 - Training (Re-training)
 - Quality control
 - Data Collection feedback

-) **Monitoring communication**
 - Keeping track of who communicates what to whom
 - Used for information trace-back (to its origin)
 - Used for error-location
 - Data-exchange
 - Standardized communication protocols

-) **Monitoring Publication and Reporting**

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IMSMA V3.x verification

Why:

tblSurvey1 (Impact Survey)

clinMADoneTC	clinMASchool	clinMAPosterTC	clinMARadioTC	clinMAPerform	clinMACCommunityCenterTC
Yes	No	Yes	Yes		No
Yes		Yes			Yes
Yes		Yes			
Yes		Yes	Yes		Yes
Yes		Yes			
Yes	No	Yes	Yes		Yes
No	No	No	Yes		No
Yes		Last24Months	Last24Months		Last24Months
Yes		Last24Months			
Yes			Yes		

Available options in IMSMA 3.1 SPI:

YES	YES	YES	YES
NO	NO	NO	NO
UNKNOWN			

Results when trying to migrate in IMSMA 4.01:

[parser.Expression] **ERROR** Error at: Row: 58. No **ImismaEnum value found for: MREPeriod/Last24Months**
 [parser.Expression] **ERROR** Error at: Row: 63. No **ImismaEnum value found for: MREPeriod/Last24Months**
 [parser.Expression] **ERROR** Error at: Row: 64. No **ImismaEnum value found for: MREPeriod/Last24Months**
 [parser.Expression] **ERROR** Error at: Row: 64. No **ImismaEnum value found for: MREPeriod/Before24Months**

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A way to reduce errors



Data collection tool linked to IMSMA.



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Thank you for your patience !



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